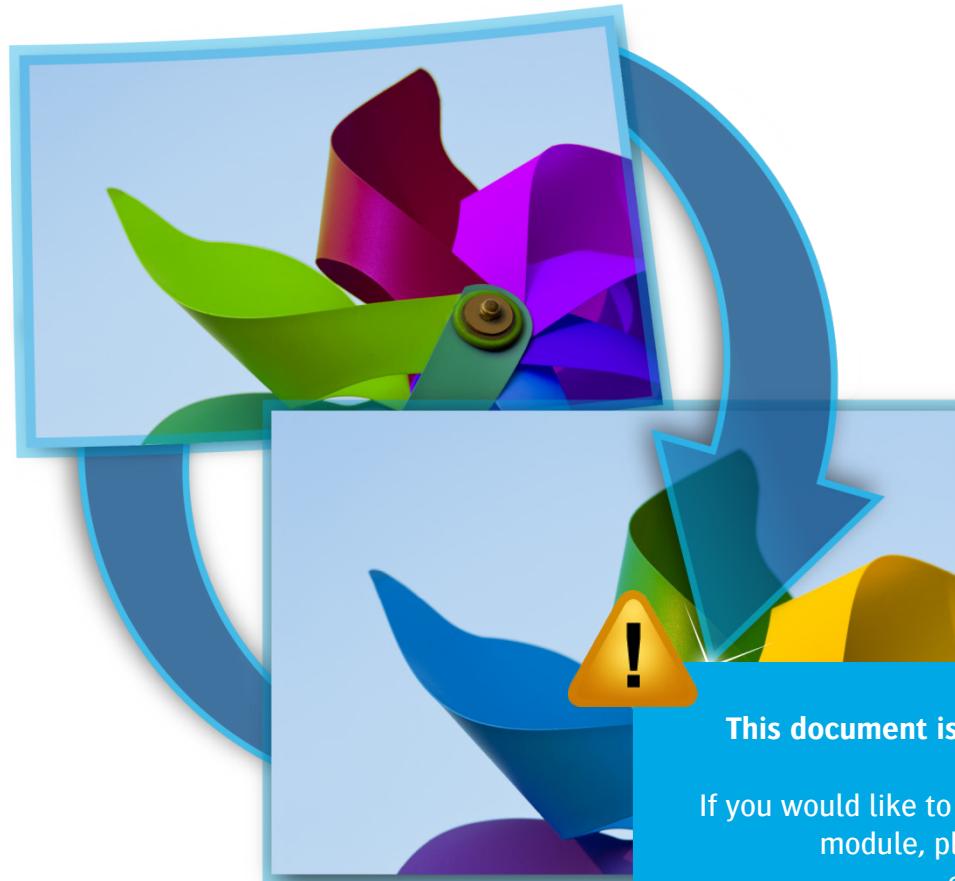


# TRAINING MODULE APOGEE PREPRESS 8.0

## DOC BASED COLOR MANAGEMENT

# Sample



This document is only a preview of the training module.

If you would like to obtain more information about this training module, please contact your local Agfa sales or service representative.

Worldwide addresses of our local Agfa representatives can be found on our Agfa Graphics website:  
[http://www.agfographics.com/global/en/maings/about\\_us/worldwide/index.jsp](http://www.agfographics.com/global/en/maings/about_us/worldwide/index.jsp)

## Color conversion methods

### 1. Exercise 1 - Document Based CMS of PDF's without an output intent [ESSENTIAL]

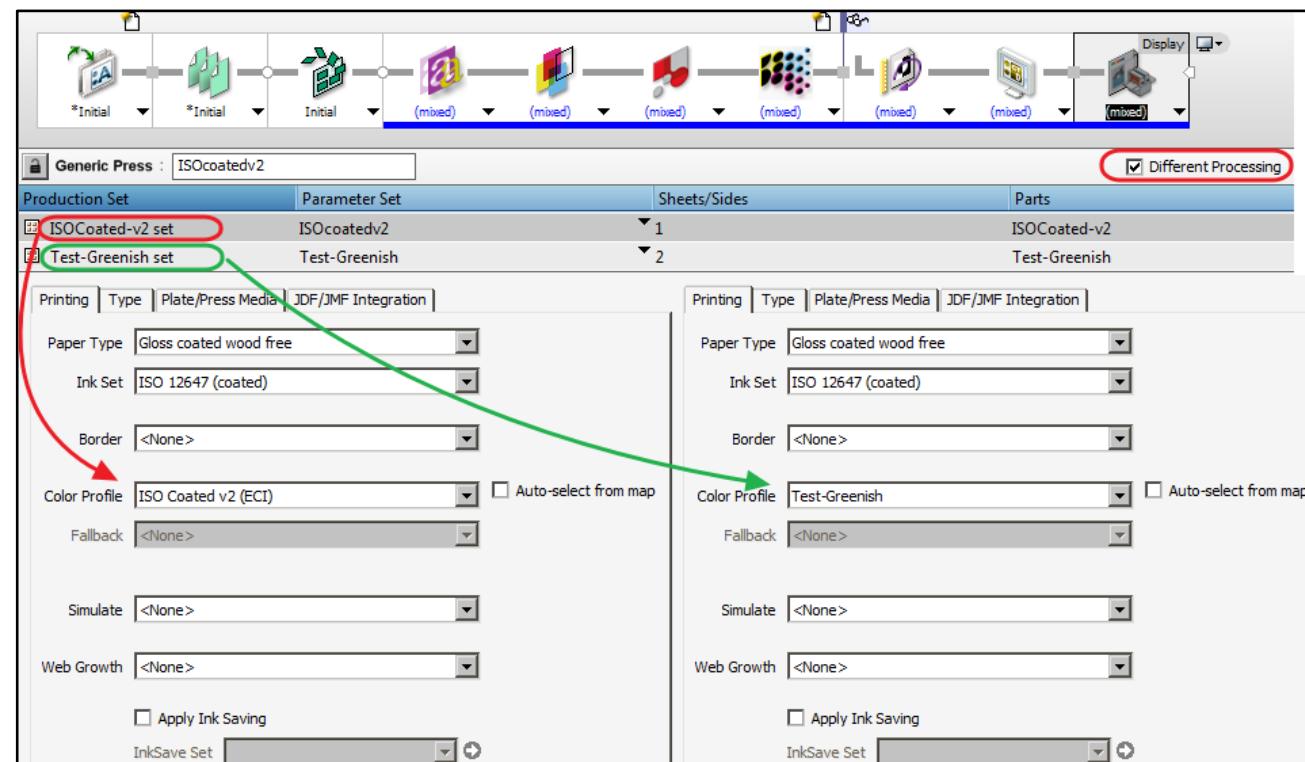
Exercise-1 uses the Document Based CMS without output color conversion and with default input color conversion settings, the PDF's don't contain a document output intent profile.

#### Creating the job

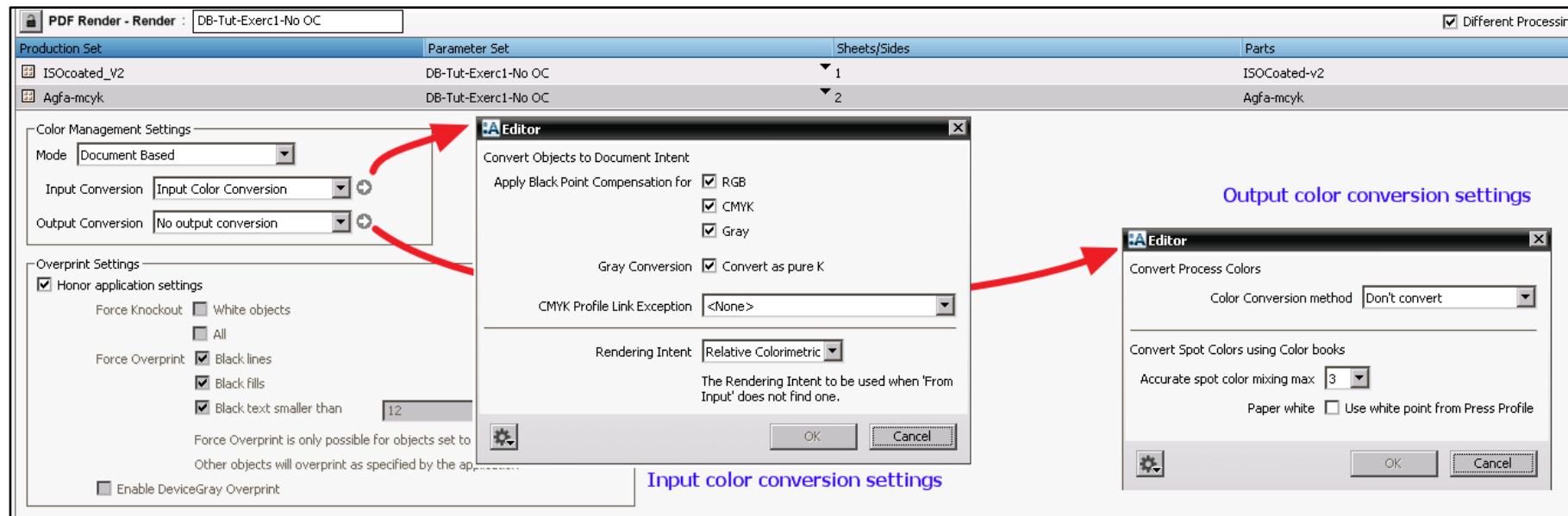
1. Submit [\[Doc Based CMS - Exercise 1.ajt\]](#)
2. Drag [\[ApogeeColor-Without-DOI- ISOCoatedv2\\_1.pdf and ApogeeColor-Without-DOI-Test-greenish\\_2.pdf\]](#) on the job (Exercise-1), the job will start processing immediately after upload, due to the autoplace rule in the runlist.

#### Analyzing the job, how is the exercise job constructed?

- The job contains 2 production sets with each a different press color space: ISOcoatedv2\_eci.icc and Test-Greenish.icc.
- For each production set a PDF exists with the same CMYK color space (ISOcoatedv2\_eci and Test-Greenish.icc) to illustrate what happens if the output intent is not honored or set correct.
- ISOCoatedv2\_eci.icc is the standard profile for coated papers used very often in Europe, where as the Test-Greenish.icc is a synthetic profile based upon a "tweaked" measurement file.

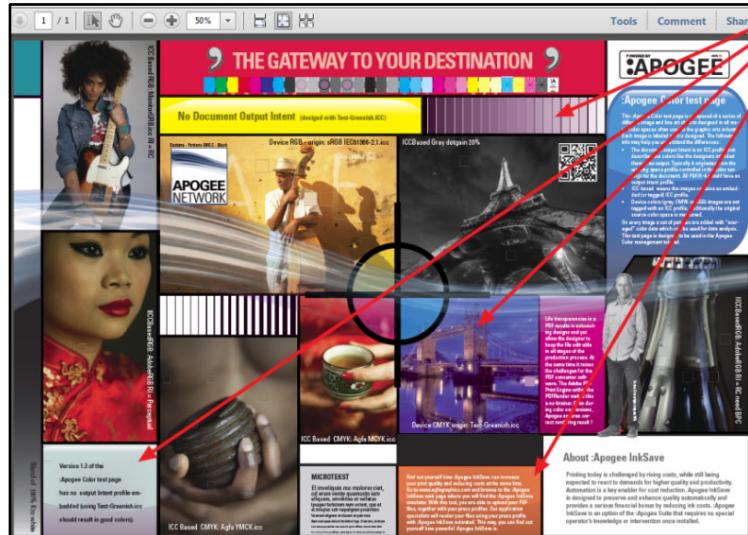


- Check the PDFRender/Render settings to consult the parameters for Document Based CMS:

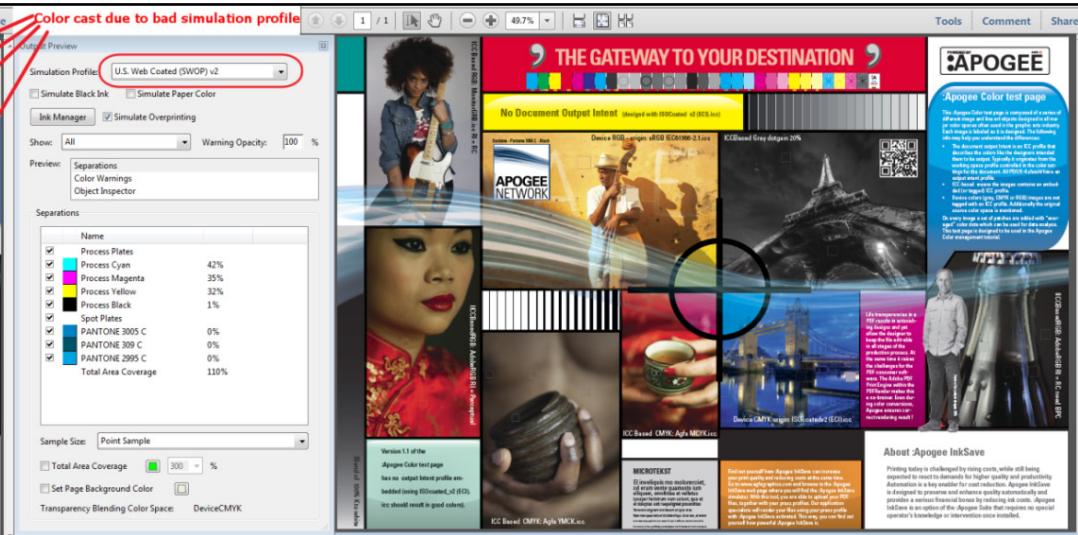


### 3. Open [ApogeeColor-Without-DOI- ISOCoatedv2\\_1.pdf](#) and [ApogeeColor-Without-DOI-Test-greenish\\_2.pdf](#) in Acrobat.

- Notice that for some CMYK objects in ApogeeColor-Without-DOI-Test-greenish\_2.pdf the colors are not natural when viewed with standard CMYK profile as output intent. Since there is no document output intent in either of both files, Acrobat uses the default CMYK profile from the color management preference setup: typically "U.S Web coated (Swop) v2" which is totally different than the Test-Greenish.icc profile.



Apogee Color – Test-Greenish -NO DOI.pdf



Apogee Color - ISOCoatedv2 -NO DOI.pdf

### How did Apogee process this job?

- Apogee posted a warning because there were no Document Output Intent profiles in the PDF's, Apogee used the press profile during Input color conversion.
  - The press profile for production set 1, was ISOcoatedv2\_eci.icc, and for production set 2 Test-Greenish.icc. So when the correct document was placed in the correct placeholder, the rendered result should look natural for both parts.
4. Open the rendered result with the Raster Preview to check the rendered result (double-click on the result thumbnails).  
 5. Verify the result by toggling on/off the black channel (use CTRL+ALT+I to activate/de-activate the inks-palette).

Date occurred	Location	Description
1/18/2013 5:20:27 PM	PDFRender (2)	Document Output Intent
1/18/2013 5:20:28 PM	PDFRender	Document Output Intent
<b>(2316) Document Output Intent</b> Reported by "PDFRender (2)" on 5:20:27 PM, Friday, January 18, 2013		
<b>Notification Info</b> This notification is for Task Processor 'PDF Render', flow 'Display': Sig 1 Front (1 side) Production Set 'ISOcoated_v2'  This job does not contain a CMYK document output intent profile, which is required when document based CMS is used. Because no output color conversion was enabled, Apogee used the press profile as document output intent.		

The yellow “Cuban bass” deviceRGB image is different. This is caused by simple conversion of deviceRGB (untagged) towards document CMYK. See exercise-4 for a solution. Also be aware that all grays are converted as pure K and show a greenish cast because the Test-Greenish.icc profile has a greenish K measurement (see also exercise 3).



## 2. Exercise 2 - Document based CMS of PDF's with output intent. [ESSENTIAL]

Exercise-2 uses the same jobticket as exercise-1 but now the PDF's are true PDF/X-4 and contain a document output intent profile.

**Creating the job.**

1. Submit [\[Doc Based CMS - Exercise 2.ajt\]](#)
2. Drag [\[ApogeeColor-With-DOI- ISOCoatedv2\\_1.pdf and ApogeeColor-With-DOI-Test-greenish\\_2.pdf\]](#) on the job (Exercise-2).
3. Open [\[ApogeeColor-With-DOI- ISOCoatedv2\\_1.pdf and ApogeeColor-With-DOI-Test-greenish\\_2.pdf\]](#)

**Analyzing the job - How are the PDF's constructed?**

3. Open [\[ApogeeColor-With-DOI- ISOCoatedv2\\_1.pdf and ApogeeColor-With-DOI-Test-greenish\\_2.pdf\]](#)

Notice that the colors for the CMYK objects in both PDF files now Intent from the first exercise). This is due to the embedded docu-



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ISOcoated\_v2 = reference

Tagged Gray shows Neutral !!!

Untagged Gray and K-only show Greenish cast due to tweaked

**How did Apogee process this job?**

- Apogee posted no warning: Because both PDF's contain a document output intent profile.
- The Rendered result is the same as in exercise-1 because the press profiles of the Production Sets are identical to the document intent.